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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

10/521599

Confirmation No. N/A

Applicant

Dominik Meyer

Filed TC/A.U.

January 18, 2005

Examiner

N/A N/A

Title

USE OF NEUROTOXIC SUBSTANCES FOR THE

PRODUCTION OF A MEANS FOR THE TREATMENT OF JOINT PAIN AND METHOD FOR APPLICATION OF

SAID MEANS

Docket No.

LUS-15874

Customer No.

040854

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir/Madam:

Enclosed herewith is an English translation of the International Preliminary Examination Report for filing in the above-identified application.

Respectfully submitted,

RANKIN, HILL, PORTER & CLARK LLP

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop Commissioner for Patents, P.O. Box 1450, Alexandria, XX 22313-1450, on the date indicated below.

Signature of Person Mailing Paper

4/4/05

David E. Spaw

Date

Printed Name of Person Mailing Paper

PATENT COOPERATION TREATY

PCT/CH2002/000400

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1947/PCT	FOR FURTHER AC	R FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/CH2002/000400	International filing date 19 July 2002 (Priority date (day/month/year)			
International Patent Classification (IPC) or national classification and IPC A61K 31/05, 31/165, 31/167, 31/245, 31/445, 33/04, A61P 19/02, A61K 31/445						
Applicant	Applicant MESTEX AG					
and is transmitted to the applicant ac 2. This REPORT consists of a total of This report is also accompaniamended and are the basis for 70.16 and Section 607 of the These annexes consist of a to 3. This report contains indications related to the section in the section for the secti	and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of					
VIII Certain observations on the international application						
Date of submission of the demand 19 January 2004 (19.01.2004)		Date of completion of this report 02 November 2004 (02.11.2004)				
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.		Telephone No.				

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CH2002/000400

. Basis of the report						
1. With regard to the elements of the international application:*						
١		the international	application as originally filed			
Ì	$\overline{\boxtimes}$	the description:				
		•	1-14	, as originally filed		
				, filed with the demand		
			, filed with the letter of			
	∇					
	M	the claims:		, as originally filed		
		pages	, as amended (together w	ith any statement under Article 19		
				, filed with the demand		
		pages	9-34 / 1-8, 35-43 , filed with the letter of	8.4.2004 / 8.10.2004		
		pages	,			
	Ш	the drawings:		, as originally filed		
		pages				
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		the sequence listi	ing part of the description:			
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		pages	, filed with the letter of			
3	the i	the language of the language of the language of the language or 55.3). The regard to an diminary examinate of the furnished subtraction of the statement of th	of a translation furnished for the purposes of international search (under Rule of publication of the international application (under Rule 48.3(b)). of the translation furnished for the purposes of international preliminary by nucleotide and/or amino acid sequence disclosed in the international attion was carried out on the basis of the sequence listing: the international application in written form. The with the international application in computer readable form. The sequently to this Authority in written form. The sequently to this Authority in computer readable form. The subsequently furnished written sequence listing does not application as filed has been furnished. That that the information recorded in computer readable form is identical of the sequence is identical.	which is: le 23.1(b)). examination (under Rule 55.2 and/ ional application, the international go beyond the disclosure in the		
		the c	laims, Noslrawings, sheets/fig	since they have been considered to go		
	5. 🛭	beyond the d	has been established as if (some of) the amendments had not been made, some of the supplemental Box (Rule 70.2(c)).** Its which have been furnished to the receiving Office in response to an invitational control of the supplemental Box (Rule 70.2(c)).**	tation under Article 14 are referred to		
	in	this report as A 70-17)	ts which have been furnished to the receiving Office in response to an inviderance of the control of the contro			
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International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/CH2002/000400

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
the	entire international application.			
Cla	ims Nos			
because:				
the rel	e said international application, or the said claims Nos. 40-43 (industrial applicability) ate to the following subject matter which does not require an international preliminary examination (specify):			
See	supplemental sheet			
□ th	ne description, claims or drawings (indicate particular elements below) or said claims Nos			
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.			
	no international search report has been established for said claims Nos			
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 				
	the written form has not been furnished or does not comply with the standard.			
	the computer readable form has not been furnished or does not comply with the standard.			
1	_			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
"PCT/CH 02/00400

I. Basis of the report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

The amendments submitted with the letter of 8 October 2004 introduce substantive matter that, contrary to PCT Article 34(2)(b), goes beyond the disclosure in the international application as filed. The amendments are as follows:

Claim 4: "...local anesthetic in a concentration of over 4%...".

This also applies to claims 5-39 in conjunction with claim 4.

INTERNATIONAL PRELIMINARY EXAMINATION REPORTS

International application No. PCT/CH 02/00400

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.

- 1. An incomplete search report was established for claims 1-43 (see comment in the international search report, field I.2). The international preliminary examination thus applies only to those parts of claims 1-43 for which an international search report has been established (PCT Rule 66.1(e)).
- 2. Claims 40-43 relate to subject matter which, in the opinion of this Authority, falls under PCT Rule 67.1(iv). Consequently, no expert opinion has been established in respect of the industrial applicability of the subject matter of said claims (PCT Article 34(4)(a)(i)).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CH 02/00400

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement		•	
	Novelty (N)	Claims		YES
		Claims	1-43	NO NO
	Inventive step (IS)	Claims		YES
		Claims	1-43	NO NO
	Industrial applicability (IA)	Claims	1-39	YES
		Claims		NO

2. Citations and explanations

- 1. Reference is made to the following international search report citations:
 - D1: WO 99/01114 A (EURO CELTIQUE SA; DONIGI GALE DONNA (US); CHASIN MARK (US); GOLDEN) 14 January 1999 (1999-01-14)
 - D2: WO 00/61152 A (BRANDSSON SVEINBJOERN; HEDNER THOMAS (SE); HEL AB (SE); KARLSSON J) 19 October 2000 (2000-10-19)
 - D3: WO 01/02015 A (UNIV GEORGIA RES FOUNDATION, INC) 11 January 2001 (2001-01-11)
 - D4: US-A-3 368 937 (MACEK THOMAS J ET AL) 13 February 1968 (1968-02-13)
 - D5: US-A-4 851 442 (WATSON W KEITH R) 25 July 1989 (1989-07-25)
 - D6: CALVILLO O ET AL: "NEUROAUGMENTATION IN THE MANAGEMENT OF SACROILIAC JOINT PAIN. REPORT OF TWO CASES" SPINE, PHILADELPHIA, PA, US, Vol. 23, No. 9, 1 May 1998 (1998-05-01), pages 1069-1072, XP001013345
 - D7: DATABASE EMBASE [Online] ELSEVIER SCIENCE

 PUBLISHERS, AMSTERDAM, NL; ULSETH E.: "Nerve blocks
 for chronic pain." XP002232748, located in the STN

 Database, accession no. 79200943
 - D8: US-A-4 657 764 (ARIAS-ALVAREZ ANTONIO J) 14 April 1987 (1987-04-14)

International application No.
PCT/CH 02/00400

D9: DE 195 45 180 A (LIEDTKE PHARMED GMBH) 5 June 1997 (1997-06-05)

- a) Document D1 describes the treatment of localized joint pain with a composition containing a local anesthetic such as lidocaine, bupivacaine, tetracaine, ropivacaine or etidocaine, an adjuvant for delayed release and a substance for increasing/prolonging the effect, such as vincristine, cortisone or hydrocortisone. A vasoconstrictor such as epinephrine, norepinephrine or phenylephrine can be added. Moreover, the compositions can contain a diagnostic agent such as a contrast medium for nuclear spin resonance tomography. The compositions can be administered into the joint. The local anesthetic is microencapsulated and is not available in a dissolved form.
- b) Document D2 describes a method for treating pain related to joint surgery wherein a morphine-6-glucuronide is administered, preferably with a local anesthetic such as lidocaine, bupivacaine, ropivacaine and possibly an NSAID. A common salt solution or, for example, an aqueous solution containing hyaluronic acid is used as the carrier (see page 5, lines 11-16 and examples 1-3).
- c) Document D3 describes topical compositions (salves, cremes, etc.) containing an NSAID, an alcohol such as propylene glycol, a substance for lowering the melting point such as thymol or eugenol and a local anesthetic such as lidocaine, tetracaine or mixtures thereof. The compositions are used to treat inflammations and/or pain related inter alia to rheumatoid arthritis, arthralgia, gout, etc. No solutions are mentioned.

- d) Document D4 describes injectable aqueous solutions containing dexamethasone, lidocaine, sodium bisulfite, phenol, hydrochloric acid and epinephrine. The solutions are used to treat arthritis and bursitis.
- e) Document D5 describes the treatment of pain and/or inflammation associated with arthritis using a solution for localized application, containing lidocaine, DMSO and citric acid.
- f) Document D6 describes the treatment of sacroiliac joint pain by means of an intraarticular injection of local anesthetics and steroids as well as intracapsular injections of glycerin, glucose and phenol. Bupivacaine and lidocaine were injected into the joint after the contrast medium iohexol.
- g) In document D7, local anesthetics such as 0.5% lidocaine, 0.25% bupivacaine, phenol, chlorocresol and glycerol are used to create a neurological blockade, e.g. a supracapsular blockade for shoulder pain.
- h) Document D8 describes the use of bisulfites to treat arthritis symptoms. Local anesthetics are not mentioned.
- i) Document D9 describes a topical composition for treating the symptoms of pain associated with rheumatism, arthritis and arthrosis, said composition containing a local anesthetic such as tetracaine, prilocaine, bupivacaine, mepivacaine, etidocaine as well as procaine and benzocaine, said substances occurring in concentration ranges of 0.5 to 40%. No solutions are mentioned.

2. Novelty and Inventive Step (PCT Article 33(2) and (3)) The present application does not satisfy the requirements of PCT Article 33(1).

The use of local anesthetics such as lidocaine or bupivacaine in the form of a solution to treat joint pain was already described in documents D2, D4, D5, D6 and D7. The method for treating pains of this type, wherein a corresponding solution is injected into the intracapsular region or into the synovial bursa is also already known (see inter alia D2 and D6).

Therefore, the subject matter of independent claims 1 and 40 is not novel (PCT Article 33(2)).

Dependent claims 2-39 and 41-43 do not appear to contain any additional features that, in combination with the features of claims 1 and 40, respectively, to which they refer back, meet the PCT requirements for novelty and inventive step.

Industrial Applicability (PCT Article 33(4))

The PCT Contracting States do not have uniform criteria for assessing the industrial applicability of claims 40-43 in their present form. Patentability may also depend on the wording of the claims. The EPO, for example, does not recognize the industrial applicability of claims to the medical use of a compound; it may, however, allow claims to the first medical application of a known compound or to the use of such a compound in the manufacture of a drug for a new medical application.